

(C) WPI / DERWENT

XP-002353855

AN - 1991-159945 [25]

A - [001] 014 028 04- 040 147 198 231 248 240 244 245 252 259 336 528 532  
537 558 688 720 728

AP - JP19890233519 19890908

CPY - KANE

DC - A96 D16 D21

FS - CPI

IC - A61K7/06 ; C12N9/48

KS - 0013 0218 0231 1279 1588 1989 2000 2002 2007 2575 2761 3198 3201

MC - A12-V04A D08-B03

PA - (KANE ) KANEBO LTD

PN - JP3095109 A 19910419 DW199122 000pp

PR - JP19890233519 19890908

XA - C1991-069211

XIC - A61K-007/06 ; C12N-009/48

AB - J03095109 Material contains a transglutiminase modified with a water-soluble substance(s).

- Specifically, the transglutiminase is obtd., e.g., from livers, blood serum, blood platelets, and epidermis of guinea pigs, rats, pigs, cattle, and sheep. Microorganism-originated transglutaminases are also used. The water-soluble substances for the modification include polyethylene glycol, ethylene glycol, propylene glycol, glycerine, PVA, glucose, sucrose, fructose, alginic acid, CMC, starch and hydroxypropyl cellulose. The ratio for the modification is pref. 0.2-50 pts. wt. of water-soluble substance(s) to 1 pt. wt. of transglutiminases. The water-soluble substances are bonded to transglutaminases, e.g., by bonding between OH or NH2 gp. and cyanuryl chloride or glutaraldehyde.

- USE/ADVANTAGE - Material is safe to the skin and stable, without odorising or discolouring, and imparts smoothness, wetness, glossiness, elasticity and softness.

- (Dwg.0/0)

IW - HAIR COSMETIC MATERIAL IMPROVE WATER RETAIN SOFT CONTAIN TRANS  
GLUTAMINASE MODIFIED WATER SOLUBLE SUBSTANCE POLYETHYLENE GLYCOLIKW - HAIR COSMETIC MATERIAL IMPROVE WATER RETAIN SOFT CONTAIN TRANS  
GLUTAMINASE MODIFIED WATER SOLUBLE SUBSTANCE POLYETHYLENE GLYCOL

NC - 001

OPD - 1989-09-08

ORD - 1991-04-19

PAW - (KANE ) KANEBO LTD

TI - Hair cosmetic material improving water retention and giving softness -  
contains trans-glutaminase modified with water soluble substance, e.g.  
polyethylene glycol